

BIRKENGOF, A., inzh.; MIKEYEV, A., inzh.

Aids for rural builders. Sel'stroi. 15 no.1:30-31 Ja '60.

(MIRA 15:7)

(Construction industry)

BIRKENGOF, A., inzh.

Machinery for the manufacture of soil concrete. Sel'. stroi.
15 no.3:22-23 Mr '60. (MIRA 16:2)
(Concrete mixers)

BIRKENGOF, A., inzh.

New effective building materials. Sel'.stro1. 15 no.4:21 Ap
'60. (MIRA 16:1)

(Moscow—Exhibitions)
(Building materials—Exhibitions)

BIRKENGOF, A., inzh.

Innovators' experience with rational utilization of earthworking
machinery. Sel'. stroi. no.5:28-30 My '62. (MIRA 15:7)
(Excavation)

BIRKENGOF, A., insh.

New ventilation system. Sel'.stroj. 15 no.6:13-14
Je '60. (MIRA 13:8)
(Dairy barns---Heating and ventilation)

BIRKENGOF, A., inzh.

"Roofing operations" by A.S.Kozlovskii. Reviewed by A.Birkengof.
Sel'.stoi. no.8:30-31 Ag '62. (MIRA 15:11)
(Roofing) (Kozlovskii, A.S.)

BIRKENGOF, A., inzh.

Using gypsum in rural construction. Sel'. stroi. no.10:21-22
0 '62. (MIRA 15:11)

(Gypsum)

BIRKENGOF, A., inzh.

Local binding materials replace cement. Sel'.stoi. no.11:15-17
N '62. (MIRA 15:12)

(Binding materials)

BIRKENGOF, A., inzh.

Protecting reedwork from decay. Sel'. stroi. no.12:20-21
D '62. (MIRA 16:1)

(Reed products)

BIRKENGOF, A., inzh.

Nonpressure steam chambers. Sel'.stoi. 16 no.2:10-11
F '62. (MIRA 15:12)

(Concrete--Curing)

BIRKENGOF, A., insh.

Improved window unit. Sel'. stroi. 18 no.5:25 My '63.
(MIRA 16:6)
(Windows)

BIRKENGOF, A., inah.

Storage of reinforced concrete elements at the building site. Sel'.
stoi. 17 no.2:23-24 F '63. (MIRA 16:3)
(Precast concrete--Storage)

BIRKENGOF, A. L.

Birkengof, A. L. "In Memoriam" (on the geographies of S. N. Nedrigaylov and M. D. Semenov-Tyan-Shanskiy, 1882-1942) Uchen, zapiski (Leningr. gos. ped. in-t im. Pokrovskogo), Vol. VI, 1948, p. 5-10 - Bibliog: "List of published scientific works of S. N. Nedrigaylov", p. 8-9; "List of chief works of M. D. Semenov-Tyan-Shanskiy", p. 9-10

SO: U-3850, 16 June 53, (Letopis 'Zhurnal 'nykh Statey, No. 5, 1949).

BIRKENGOF, A. L. and DARINSKIY, A. V.

"Complex Geographic Investigations in the Region of Leningrad Oblast'," a report given at a 1953 meeting of the Dept. of Physical Geography, AU Geographic Society with the Dept. of Economic Geography. Iz. vses. Geograf. Obshch., No.6, 1954

BIRKENGOF, A.L.

Dmitrii Borisovich Karelin; obituary. Izv.Vses.geog.ob-va 86 no.2:202-
203 Mr-Ap '54. (MLRA 7:6)
(Karelin, Dmitrii Borisovich, 1913-1953)

BIRKENGOF, A.L.;

BIRKENGOF, A.L.; DARINSKIY, A.V.

Overall geographical investigation of the territory of an administrative district. Izv. Vses.geog.ob-va 86 no.4:325-335 J1-
Ag '54. (MLRA 7:9)

(Oyat District--Economic geography) (Economic geography--
Oyat District)

BIRKENGOF, A.L.; SERGEYEV, M.A.

Through Siberia; guide for tourists. V.N.Skalon Reviewed by A.L.
Birkengof, M.A.Sergeev. Izv.Vses.geog.ob-va 87 no.1:81-83 Ja-F '55.
(Skalon, V.N.)(Siberia--Description and travel) (MIRA 8:4)

BIRKENGOF, A.L.; SERGEYEV, M.A.

"In the wide latitudes; notes of a naturalist." L.I. Leonov;
"In the Arctic tundra; naturalist's reports." V.M. Sdobnikov.
Reviewed by A.L. Birkengof, M.A. Sergeev. Izv. Vses. geog. ob-va
87 no. 2: 189-190 Mr-Apr '55. (MIRA 8:9)
(Leonov, Leonid Ivanovich, 1895-1952) (Sdobnikov, V.M.)
(Tundras) (Arctic regions)

BIRKENGOF, A. L.

"Natural history of Vologda District." Reviewed by A. L. Birkengof.
Izv. Vses. geog. ob-va 87 no. 3: 295-296 My-Je '55. (MLRA 8:9)
(Vologda District--Physical geography)

USSR/ Geography - Literature

Card 1/1 Pub. 86 - 37/42

Authors : Birkengof, A. L., Leningrad

Title : The seas of our country

Periodical : Priroda 45/1, 121-122, Jan 56

Abstract : A review is presented of the book by D. Karelin, "Seas of Our Country," published in 1954, by the Detgiz in Leningrad, second enlarged edition, containing 343 pages. It contains information on the physical geography and history of research of the seas of the USSR, and some history about the struggle of the people to find an outlet to the sea.

Institution :

Submitted :

BIRKENGOF, A.L.

ZUBKOV, A.I.; YERMOLAYEV, M.M., otv. red.; BIRKENGOF, A.L., red.; GEMBEL',
A.V., red.

[Climate of the U.S.S.R., lectures in a course on "Physical
geography of the U.S.S.R."] Klimat SSSR; lektsii po kursu
"Fizicheskaya geografiya SSSR." Leningrad, Leningr. gos. pedagog.
in-t, 1957. 37 p. (MIRA 11:12)
(Russia--Climate)

AUTHORS: Birkengof, A.L., and Sergeyev, M.A. 12-90-2-22/30
TITLE: Book Reviews (Retsenzii)
PERIODICAL: Izvestiya Vsesoyuznogo Geograficheskogo Obshchestva, 1958,
Vol 90, Nr 2, pp 195 - 197 (USSR)
ABSTRACT: The authors review a book on "The Khanty-Mansi National
Region" by N.M. Kokosov, V.I. Nikulin and V.I. Kharin, pub-
lished by the Ural Branch of the USSR Academy of Sciences, in
1956.
AVAILABLE: Library of Congress
Card 1/1 1. Literature-Review

AUTHOR: Birkengof, A.L. 12-90-3-10/16
TITLE: Book Reviews (Retsezi)

PERIODICAL: Izvestiya Vsesoyuznogo Geograficheskogo Obshchestva, 1958,
Vol. 90, Nr 3, pp 296 - 298 (USSR)

ABSTRACT: A review is given of volume VIII of the "Scientific Notes"
of the Krasnoyarsk State Pedagogical Institute" composed by
workers of the chair of physical geography, and published in
1957.

AVAILABLE: Library of Congress
Card 1/1 1. Books-Review-USSR 2. Books-Scientific-USSR

BIRKENGOF, A.L., dots.; DARINSKIY, A.V., dots.; KOBYAKOV, S.G., dots.;
NEVEL'SHTEYN, G.S., dots.; SOKOLOV, N.N., prof.; PETROV, V.V., prof.;
MARCHENKO, A.I., dots.; KAMINSKIY, S.P., dots.; MINYEV, V.V., dots.;
BOBOK, V.D., dots.; GOLOVANOV, S.S., red.; VISHNYA, L.P., red.;
ONOSHO, N.G., tekhn. red.

[Leningrad Province; nature and economy] Leningradskaya oblast';
priroda i khoziaistvo. [Leningrad] Lenizdat, 1958. 343 p.
(MIRA 11:12)

1. Predsedatel' Leningradskoy oblastnoy planovoy komissii (for
Golovanov).

(Leningrad Province--Economic conditions)

BIRKENGOF, A.L.

"Krasnoyarsk Territory"; materials on geography and history. Izv.
Vses.geog.ob-va 93 no.3:275-277 My-Je '61. (MIRA 14:5)
(Krasnoyarsk Territory--Geography)

BIRKENGOF, A. M.

Cand Tech Sci

Dissertation: " Investigation of the Moisture Conditions of Roofings
Without an Attic".

15 Mar 49

Academy of Communal Economy
imeni K. D. Pamfilov

SO Vecheryaya Moskva
Sum 71

BIRKHOFF, A. N., Engineer --

"On the Problem of Investigating the Moisture Conditions of Atticless Roofs." Cand Tech Sci, Moscow Order of the Labor and Banner Construction Engineering Inst imeni V. V. Kuybyshev, 2 Nov 54. (W1, 21 Oct 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (10)

SO: Sum. No. 481, 5 May 55

YEVSTYUGOV, Aleksandr Ivanovich, inzhener; BIRKENGOFF, A.M., spetsredaktor;
VMOL'FOVSKAYA, D.N., redaktor; SOKOLOVA, B.N., tekhnicheskii redaktor;
PERESYPKINA, Z.D., tekhnicheskii redaktor

[Collective farm construction brigade] Kolkhoznaia stroitel'nai
brigada. Moskva, Gos. izd-vo selkhoz. lit-ry, 1956. 271 p.
(MLRA 10:1)

1. Glavkolkhozstroy Ministerstva gorodskogo i sel'skogo stroitel'stva
RSFSR (for Yevstyugov)
(Collective farms) (Construction industry)

BIRKENHOFF, M. A.

SERGEEV, IGNATIY ANTONOVICH and BIRKENHOFF, M. A. eds.

Putevoditel' po morskim trgovym portam S.S.S.R. [Guidebook to the sea ports of the U.S.S.R.]. (Moskva) Izd. R.R.O. TSK vodnikov, 1925. 492 p. diags., tables.
ICU NN

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress Reference Department, Washington, 1952, Unclassified.

ROZHANSKIY, G.G.; BIRKENGOF, M.I. (Stalino)

Publicising prophylaxis against rabies. Fel'd. i akush. 24 no.3:
43-44 Mr '59. (MIRA 12:4)

(HYDROPHOBIA)

ROZHINSKIY, G.G.; BIRKENGOF, M.I.

Control of rabies and sanitary propaganda in Donetsk from 1955 to 1960. Zhur.mikrobiol., epid.i immun. 32 no.12:115-116 D '61.
(MIRA 15:11)

1. Iz Donetskoy gorodskoy sanitarno-epidemiologicheskoy stantsii.
(DONETSK—RABIES)

BIRKENGOF, N.L.; RASHNEVSKAYA, Ye.F.; SUVOROV, N.F.

Vascular reflexes in neurasthenia and hysteria. Trudy Inst. fiziol.
3:369-376 '54. (MLRA 8:2)

1. Laboratoriya kortiko-vistseral'noy patologii, zaveduyushchiy
I.T.Kurtsin i Fizioterapevticheskaya bol'nitsa Severo-zapadnogo
vodsdravetdela, gl. vrach A.G.Krotov.

(NEURASTHENIA, physiology,

vasc. reflexes)

(HYSTERIA, physiology,

vasc. reflexes)

(REFLEX,

vasc., in hysteria & neurasthenia)

(BLOOD VESSELS, physiology,

vasc. reflex in hysteria & neurasthenia)

BIRKENMAJER, Aleksander

Copernicus as philosopher. Hist nauk mat fiz geol no.7:31-63
'63.

BIRKENMAYER, K.

Preliminary Survey of the Stratigraph of the Zone of Klippen in the Pennines of the Central Carpathians

In the klippen of the Carpathians most West European geologists distinguish deposits of klippen themselves and deposits of the shell of klippen. Proceeding from a stratigraphic profile section and from phasal peculiarities, the author distinguished among klippen several series: Chorshtyn series, intermediate series of several types (Kysut, Podbel, and Prussian), Pennine series. In the shell of klippen in the Pennines are distinguished an ancient series made up of rocks from the middle Albian to the Senonian, and a young series (Senonian, Paleogene). (RZhGeol, No. 6, 1955) Bull. Pol'skoy akad. nauk. Otd. 3, 1, No. 6, 1953, 269-272.

SO: Sum. No. 744, 8 Dec 55 - Supplementary Survey of Soviet Scientific Abstracts (17)

~~BIRKENMAIER, K.~~

"Report from the activities of the Polish Geologic Society in the administrative year 1954/1955; from September 12, 1954, to June 3, 1955."

p. 387 (Rocznik) Vol. 25, no. 4, 1955 (published 1957)
Krakow, Poland

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

BIRKENMAJER, K.

"Sedimentary characteristics of the Jarmuta beds (Maestrichian) in the Pieniny klippen belt (Central Carpathians). In English."

p. 729 (Bulletin) Vol. 4, no. 10, 1956
Varsovie, Poland

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

BIRKENMAJER, K.

Lower Permian deposits in the eastern limb of the Debnik anticline.
p. 25 ACTA GEOLOGICA POLONICA Warszawa, Poland Vol. 6, No. 1, 1956

SOURCE: East European Accessions List (EEAL) Library of Congress
Vol. 5, No. 6, June 1956

POLAND/Cosmochemistry - Geochemistry. Hydrochemistry.

D.

Abs Jour : Ref Zhur - Khimiya, No 11, 1958, 35819

CO₂, saturating the ground water of I, is directed to the surface along the contact line of least resistance between shale rock and sandstone rock. The author assumes that the CO₂ of Shchavmitsy is the result of the activity of fumarole (moffette) carbonates. The gas that is given off heads for the surface through I, at the same time dissolving into the ground water and forming hydrocarbonates that attack I, decompose the plagioclases and amphiboles, and enrich the water with Mg²⁺ + Ca²⁺ + K⁺ -- and, partly, Na⁺ and Fe²⁺ --ions, as well as with silicic acid. The insoluble Al₂O₃ compounds remain in I. The origination of Cl, Br, I, [odine] Ba, Sr, and Si ions is explained by the leaching of marine deposits, considered as the residue of the saline waters of the original marine basin. The SO₄²⁻ and Fe²⁺ ions are formed as a result of the decomposition of FeS₂, which

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BIRKENMAJER, K.; T. WIESER

Tuffs in variegated strata of the Pieniny nappes-belt mantle. p. 1.
ACTA GEOLOGICA POLONICA Warszawa, Poland Vol. 6, No. 1, 1956

SOURCE: East European Accessions List (EEAL) Library of Congress
Vol. 5, No. 6, June 1956

BIRKENMAJER, K.

"The scientific expedition to Spitsbergen before the Polish arctic expedition during the 3d International Geophysical Year."

p. 77 (Kosmos. Serbia B: Przyroda Nieożywiona) Vol. 3, no. 1, 1957
Warsaw, Poland

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

BIRKENMAJER, K.

"29th Scientific Conference and the General Meeting of the Polish Geologic Society."

p. 83 (Kosmos. Serbia B: Przyroda Nieożywiona) Vol. 3, no. 1, 1957
Warsaw, Poland

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

BIRKENMAJER, KRZYSZTOF.

Przewodnik geologiczny po Pieniskim pasie skalnym. (Wyd. 1)

Warszawa,

Wydawn. Geologiczne.

Vol. 1, 1958, 134 p.

Vol. 2, 1958, 71 p.

Vol. 3, 1958, 86 p.

Vol. 4, 1958, 54 p.

Monthly list of East European Accessions (EEAI). LC. Vol. 8, no. 2, ^{July} 1959.

Uncl.

BIRKENMAJER, K.

The first season of research of the Polish Spitsbergen expedition during the 3rd Geophysical year.

P. 1 (WSZECGSUAT) (Warszawa, Poland) No. 1, Jan. 1958

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 5, 1958

BIRKENMEIJER, K.; GASICROWSKI, S.

"The aptycus of the Tithonian and Neocomian periods in the secondary deposit of the Senonian Klippen Belt of Poland." P. 345

Polskie Towarzystwo Geologiczne. ROCZNIK. Krakow, Poland. Vol. 28, No. 3, 1958

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 6, June 1959

Uncl.

BIRKENMAJER, K.

Preliminary report on the stratigraphy of the Hecla Hoek formation
in Wedel-Jarlsberg Land, Vestspitsbergen. Bul Ac Pol chim 6 no.2:
143-150 '58. (EAI 9:6)

1. Laboratory of Geology, Cracow, Polish Academy of Sciences.
Presented by S.Z. Rozycki.
(Spitsbergen-- Geology)

BIRKENMAJER, K.

Preliminary report on the raised marine features in Hornsund,
Vestspitsbergen. Bul Ac Pol chim 6 no.2:151-157 '58. (KMAI 9:6)

1. Presented by S.Z. Rosycki.
(Spitsbergen-- Geology)

Birkešmajer, K.

The importance of the Haligovce Klippe in the geology of the Pieniny Klippen Belt. p. 73.

ANNALES. SECTIO B: GEOGRAPHIA, GEOLOGIA, MINERALOGIA ET PETROGRAPHIA. Lublin, Poland, Vol. 29, no. 1, 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959. Uncla.

BIRKENMAJER, K.

Fucusopsis angulatus Palibin (Problematics) from the variegated beds (Danian-Paleocene) of the Pieiny Klippen Belt mantle .
p. 227

Polskie Towarzystwo Geologiczne. ROCKNIK. Krakow. *POLAND*
Vol. 29, no. 2, 1959

Monthly List of East European Accessions (EEAI) LC Vol. 9, no. 2, Feb. 1960

Uncl.

BIRKENMAJER, K.

Diapiric tectonics in the Pieniny klippen belt, Carpathians.
Bul Ac Pol chim 7 no.2:123-128 '59. (KEAI 9:7)

1. Laboratory of Geology, Cracow Branch, Polish Academy of
Sciences. Presented by S.Z.Rozyski.
(Poland--Geology) (Carpathian Mountains)

BIRKENMAJER, K.

Report on the geologic investigations of the Hornsund area,
Vestspitsbergen, in 1958. Pt.2. The post-Caledonian succession.
Pt.3. The Quaternary geology. Bul Ac Pol chim 7 no.3:191-202
'59. (EEAI 9:7)

1. Laboratory of Geology, Cracow, Polish Academy of Sciences.
Presented by S.Z.Rozycki.
(Spitsbergen--Geology)

BIRKENMAJER, K.; GASIOROWSKI, S. M.

Stratigraphy of the malm of the Niedzica and Branisko series (Pieniny Klippen Belt, Carpathians), based on Aptychi. Bul geolog PAN 8 no.2: 137-143 '60.

1. Laboratory of Geology, Cracow, Institute of Geology, Polish Academy of Sciences. Presented by M. Ksiaskiewicz.

(Aptychus) (Carpathians)

BIRKENMAJER, Krzysztof

Geological form of Mt. Wsaw andesites (Pieniny Mts.,
Carpathians). Acta geol Pol 12 no.2:201-213 '62.

1. Institute of Geology, Polish Academy of Sciences, Laboratory
of Geology, Krakow.

BIRKENMAJER, Krzysztof

On the so-called Pliocene clay near Kluszkowce, Podhale.
Acta geol Pol 12 no.2:215-226 '62.

1. Institute of Geology, Polish Academy of Sciences, Laboratory
of Geology, Krakow.

BIRKENMAJER, Krzysztof; PAZDRO, Olga

Age and geologic position of so-called sub-Flysch beds of the Pieniny Klippen Belt of Poland. Roczn geol Krakow 33 no. 4: 415-456 '63.

1. Institute of Geology of the Polish Academy of Sciences, Laboratory of Geology, Krakow, and Laboratory of the Palaeozoic and Mesozoic, Warsaw.

BIRKENVALD, P.V.; BURDIN, M.P.; GORKIN, S.F.; YEGOROV, V.P.; ZARZHETSKIY, V.A.; KOMODOV, A.A.; LAKTIONOV, A.T.; LEBEDENKO, D.P.; LINEVSKIY, A.A.; LOBANOV, G.V.; LYAKHOVETSKIY, Z.Ya.; MIROYEVSKAYA, O.N.; MIKHAYLOV, P.N.; NIKOLAYEV, S.V.; PAKHODEYEV, V.I.; SOKOLOV, G.V.; STRIZHEV, N.I.; SHAPOVALOV, V.A.; YAVKIN, P.Ye.; IVANININ, F.D., redaktor; DROZDOV, A.I., redaktor vypuska; SERGEYEVA, N.A., redaktor izdatel'stva; BORISOV, A.S., tekhnicheskij redaktor

[Handbook of consolidated estimate norms for geological prospecting operations] Spravochnik ukрупnennykh smetnykh norm na geologo-razvedochnye raboty (SUSN). Moskva, Gos. izd-vo geol. lit-ry. No.7
[Rotary drilling] Rotornoe burenie. 1950. 175 p. (MLRA 9:12)
[Microfilm]

1. Russia (1923- U.S.S.R.) Ministerstvo geologii.
(Boring)

49-1-9/16

Preliminary Calculation of the Chart AT-700, using the "Strela" Electronic Digital Computer.

$$\Delta = \frac{K}{L} (z, \Delta z) + \beta \frac{\partial z}{\partial x}, \text{ the advection of the absolute}$$

wind, $L = 2\omega \sin \varphi$, g is the acceleration due to gravity, L is the coriolis parameter, ω is the angular velocity of the earth, φ is the latitude,

$$\beta = \frac{2\omega \cos \varphi}{a}, \text{ and } a \text{ is the radius of the Earth; also:}$$

$$(z, \Delta z) = \frac{\partial z}{\partial x} \Delta \frac{\partial z}{\partial y} - \frac{\partial z}{\partial y} \Delta \frac{\partial z}{\partial x}.$$

The parameters g , L , β are assumed to be constant. The field $z(x, y)$ of the isobaric surface $p = 700$ m bar over some limited territory is taken to be the initial condition. As was shown in (Ref.1), (Eq.1) can be put into the form :

$$\Delta \frac{\partial z}{\partial t} = - \frac{K}{L} (z, B) - \beta \frac{\partial z}{\partial x} \quad (\text{Eq'.2})$$

Card 2/4

49-1-9/16

Preliminary Calculation of the Chart AT-700, using the "Strela" Electronic Digital Computer.

The best agreement was obtained for the central parts of the territory under consideration. Fig.2 shows the map at 06 hours, 7.12.1956 whose isobars were used to predict those in Fig.3.

There are 3 figures, 3 tables and 2 Slavic references.

SUBMITTED: January 1, 1957.

AVAILABLE: Library of Congress.

Card 4/4

SOV/179-59-2-14/40

AUTHORS: Birkgan, A. Yu., Vol'mir, A. S. (Moscow)

TITLE: Investigation of Large Deflections in Rectangular Plates by Means of a Digital Electronic Computer (Issledovaniye bol'shikh progibov pryamougol'noy plastinki pri pomoshchi tsifrovyykh elektronnykh mashin)

PERIODICAL: Izvestiya Akademii nauk SSSR OTN, Mekhanika i mashinostroyeniye, 1959, Nr 2, pp 100-106 (USSR)

ABSTRACT: There is little information available relating to the large deflections of plates, owing to the difficulty of integrating the relevant Karman system of non-linear differential equations. In the present paper, a digital electronic computer is applied to calculating the large deflection of a rectangular plate under the influence of a distributed lateral load. The basic equations and the boundary conditions are expressed as finite differences, and the solution obtained by successive approximations. The influence of the size of the mesh on the calculated values is investigated. Tables and graphs are given containing values of the

Card 1/2

report presented at the 1st All-Union Congress of Theoretical and Applied Mechanics,
Moscow, 27 Jan - 3 Feb '60.

1. A. A. Abkhvaz, A. F. Kuznetsov, L. A. Kuznetsov (Moscow): Supersonic flow over a thin airfoil with a curved surface and the basis for lifting wall construction.
2. A. A. Abkhvaz, V. A. Kuznetsov, L. A. Kuznetsov (Moscow): Best transfer in a wing of a thin airfoil with a curved surface.
3. A. A. Abkhvaz (Moscow): Torsion of cylindrical shafts.
4. A. A. Abkhvaz, L. A. Kuznetsov (Moscow): Torsion of circular shafts with longitudinal sections.
5. A. A. Abkhvaz, L. A. Kuznetsov, V. A. Kuznetsov (Moscow): Bending and twisting of a thin airfoil with a curved surface.
6. A. A. Abkhvaz (Moscow): Some relations between the torsion and bending of a thin airfoil with a curved surface.
7. A. A. Abkhvaz (Moscow): Experimental investigation of plane elastic-plastic problems by means of photoelastic films.
8. A. A. Abkhvaz, V. A. Kuznetsov (Moscow): Some contact problems in elasticity.
9. A. A. Abkhvaz, V. A. Kuznetsov, L. A. Kuznetsov (Moscow): Torsion of a thin airfoil with a curved surface.
10. A. A. Abkhvaz (Moscow): Two-dimensional bodies of equal strength.
11. A. A. Abkhvaz (Moscow): Asymptotical solution of an elastic contact problem.
12. A. A. Abkhvaz (Moscow): On the theory of anisotropic bodies of equal strength.
13. A. A. Abkhvaz, L. A. Kuznetsov (Moscow): Some problems in the theory of anisotropic (orthotropic) shells.
14. A. A. Abkhvaz (Moscow): Stability analysis of a thin shell under axial compression.
15. A. A. Abkhvaz, L. A. Kuznetsov, V. A. Kuznetsov (Moscow): The stability of a thin shell under axial compression.
16. A. A. Abkhvaz (Moscow): The stress distribution in a heavy plate with a circular hole under a load of which is subject to non-uniform forces.
17. A. A. Abkhvaz, L. A. Kuznetsov (Moscow): Photoelastic model of a thin shell under a load of which is subject to non-uniform forces.
18. A. A. Abkhvaz (Moscow): The plane contact problem of the theory of creep.
19. A. A. Abkhvaz, L. A. Kuznetsov, V. A. Kuznetsov (Moscow): Some problems in the theory of anisotropic (orthotropic) shells.
20. A. A. Abkhvaz (Moscow): Stability analysis of a thin shell under axial compression.
21. A. A. Abkhvaz, L. A. Kuznetsov, V. A. Kuznetsov (Moscow): The stability of a thin shell under axial compression.
22. A. A. Abkhvaz (Moscow): The theory of equilibrium cracks in a thin shell.
23. A. A. Abkhvaz (Moscow): Dynamical properties of rubber-like materials.
24. A. A. Abkhvaz (Moscow): Dynamic design of structures subjected to random vibrations.
25. A. A. Abkhvaz (Moscow): Temperature distribution in a thin shell under a load of which is subject to non-uniform forces.
26. A. A. Abkhvaz (Moscow): The theory of the limit state of a thin shell under a load of which is subject to non-uniform forces.
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Study of the Dynamic Stability of Plates
by Means of Digital Computers

S/020/60/135/005/012/043
B019/B067

$p = (\bar{p}/E)(a/h)^2$, $c = 1/(12(1-\mu^2))$, and $\bar{w}(\bar{x}, \bar{y}, \bar{t})$ and $\bar{w}_0(\bar{x}, \bar{y})$ denote the total and the initial bendings, $\Phi(x, y, t)$ the stress function in the center of the surface, $\bar{p}(t)$ the force, V the velocity of sound. The differential equations (1) and (2) were transformed into difference equations which under appropriate boundary conditions were calculated by means of an M-20 (M-20) type digital computer. At low loading velocities, violent bending occurs with $p \approx 1.8p_{cr}$, which is accompanied by nonlinear oscillations. $p_{cr} = \pi^2/3(1-\mu^2)$ is designated as critical static tension. In the case of high loading velocities ($p = 5t$), bending rapidly increases with $p \approx 2.6p_{cr}$. In the following, the bending direction is reversed. There are 3 figures and 3 Soviet references.

ASSOCIATION: Voenno-vozdushnaya inzhenernaya akademiya im. N. Ye. Zhukovskogo (Air Force Engineering Academy imeni N. Ye. Zhukovskiy)

PRESENTED: June 28, 1960, by N. I. Muskhelishvili, Academician

Card 2/3

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